MULTIMEDIA UNIVERSITY ®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 3, 2022/2023 (TRIM ID 2230)

PCA0084 – COMPUTER SYSTEM AND WEB DESIGN

(Foundation in Business)

3 OCTOBER 2023
9.00 a. m. – 11.00 a. m.
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **FOUR** pages (excluding the cover page).
2. Answer **ALL** questions.
3. Write your answers in the Answer Booklet provided.

QUESTION 1

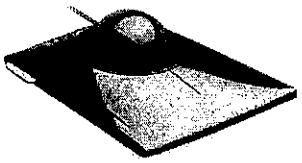
a. What is the difference between input and input device?

(2 marks)

b. Name and explain briefly the input devices shown in **Table 1**.

(3 marks)

Table 1

i. Source: https://pcandparts.com/a4tech-kr-85/	ii.  Source: https://www.kensington.com/en-za/p/products/control/

c. Identify **THREE (3)** advantages of the computing device shown in **Figure 1**.

(3 marks)

Figure 1: Computing Device
(Source: https://www.epson.co.uk/en_GB/products/retail/)

d. A printer is one of the output devices that are commonly used in any computer systems and applications. List **FOUR (4)** other output devices that are also necessary to be included in the system and application.

(2 marks)

QUESTION 2

a. State and explain briefly **TWO (2)** types of memory available in the system unit.

(3 marks)

b. Buses are used to allow various devices in the system unit to communicate with one another. List and explain **TWO (2)** types of these buses.

(3 marks)

Continued...

c. What is cloud storage?

(1 mark)

d. Identify **THREE (3)** advantages of using storage medium shown in **Figure 2**.

(3 marks)

Figure 2: Storage medium
Source: (https://www.adorama.com/alc/what-is-ssd/)

QUESTION 3

a. Kiran wants to install Windows 11 for his laptop.
   i. State and explain briefly the category of operating system used by Kiran. Give another example of an operating system that can be used by Kiran for his laptop.

(2 marks)

   ii. Automatic update is one of the features provided by the operating system. What is Automatic Update? List **THREE (3)** functions of it.

(4 marks)

b. LibreOffice is an example of freeware used to support office suite. What is freeware?

(1 mark)

c. Write the category of the applications or programs listed in **Table 2** below.

(3 marks)

Table 2: List of applications or programs

Applications or Programs Name	Category
i. Instagram	
ii. Norton AntiVirus Plus	
iii. Shopee	
iv. MS Word	
v. WhatsApp	
vi. Paint.NET	

Continued...

QUESTION 4

a. Match the network communication standards in the left column with the correct description in the right column shown in **Table 3**.

(2 marks)

Table 3: Input devices

Input Device	Description
i. Ethernet	A. Standard that specifies how two wireless devices communicate over the air with each other.
ii. Wi-Fi (Wireless Fidelity)	B. Standard that defines how messages are routed from one end of a network to another to ensure it reaches the destination correctly
iii. LTE (Long Term Evolution)	C. Standard that specifies no central computer or device on the network should control when data is transmitted in a network
iv. TCP/IP (Transmission Control Protocol/ Internet Protocol)	D. Standard that defines how high-speed cellular transmissions use broadcast radio to transmit data for mobile communications.

b. What is a Communication Device? Provide **TWO (2)** examples of the device.

(2 marks)

c. Myra is assigned to develop a system for her company to record information about the supplier. Suggest to Myra **THREE (3)** relevant field names with their data types for *tblsupplier*.

(3 marks)

d. List and explain briefly **TWO (2)** common functions of a Database Management System (DBMS).

(3 marks)

QUESTION 5

a. Refer to **Figure 3**, write the compression used by Graphics Interchange Format (GIF) for the line given:

(3 marks)

i. Line 2
ii. Line 4
iii. Line 6

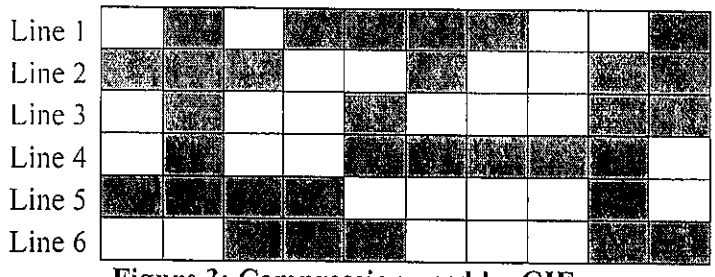


Figure 3: Compression used by GIF

Continued...

b. Explain briefly the term below:

(3 marks)

i. Animation
ii. Sampling
iii. Virtual Reality

c. What is the difference between hardware theft and hardware vandalism?

(2 marks)

d. Internet and network attacks such as virus and worm are widespread as most organizations rely on the internet for communication, and confidential data is often exchanged between networks. Explain briefly the difference between virus and worm.

(2 marks)

End of Paper